

Please replace the paragraph on page 11, beginning at line 18, with the following replacement paragraph:

-- Fig. 9: ~~New development of a~~ A two-stage plate-type evaporator (4/5) with integrated liquid supercooling (5) and suction steam superheating (5) with external or internal injection valve (2) of different design. --

Please DELETE lines 26-29 on page 11 in their entirety.

Please replace the section heading on page 11, at line 31 with the following replacement section heading:

-- ~~Realization of the invention:~~ -- Detailed Description of the Invention --

Please INSERT the following paragraphs on page 13, at line 12:

-- A liquid fraction on the evaporator side in the second stage (5/32) directly influences the level of supercooling in the second stage (5/23) of the refrigerant liquid. The process is designed in such a way that the power maximum is always to the benefit of the evaporation stage 1 (4/25), i.e. of the medium that is to be cooled (cf. diagram in Fig. 10).

7/17/07  
There is provision for operation with storage of the supercooling energy (Fig. 4; <sup>10</sup>~~12~~), in which only the internal supercooler stage (stage two) (5/23/24) is used and operation for peak load, in which the stored supercooler energy (12/27) can be deployed for liquid supercooling stage one (6/27) (liquid supercooling stage two (5/23/24) remains in operation) and therefore alone or together with the frequency conversion (Fig. 4; 10) to cover a peak load. --